

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-113

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CATERPILLAR, INC

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 1997 model-year Caterpillar, Inc. diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
VCP629EZDARK	10.3 (629)	Turbocharger Charge Air Cooler Engine Control Module

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour:

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

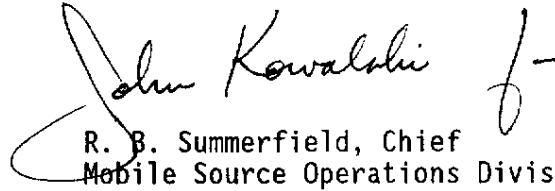
<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
VCP629EZDARK	0.1	1.3	4.2	0.06

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 16th day of December 1996.


R. B. Summerfield, Chief
Mobile Source Operations Division

Manufacturer	Caterpillar Inc.		Engine Family	VCP629EZDARK		
Displacement	10.3	/	Liters	629	/	Cubic Inches
Maximum Rated Power:	365	HP @	1800	RPM	Engine Configuration: 16	
Ignition: Compression	X	Compression with Glow Plug			Spark	
Fuel Type (s): Dedicated	X	Flex-Fuel	Dual-Fuel	Diesel	X	M100 M85
		CNG	LNG	LPG	Other (specify)	
Diesel Cert Fuel: 13CCR 2282	40 CFR 86.1313-90			40 CFR 86.1313-94		X
Primary Intended Service Class:	LHD	MHD	HHD	X	Urban Bus	
Exhaust ECS (incl. MFI, TC, CAC)	CAC, ECM, TC					

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ /stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
3176 - 1	365 @ 1800	197 (119.5)	1168888	1131842	---	---
3176 - 2	350 @ 1800	191 (115.7)	1168888	6V3495		
3176 - 2	350 @ 1800	191 (115.7)	1168888	1247242		
3176 - 3	342 @ 1800	182 (110.2)	1168888	1145549		
3176 - 4	335 @ 1800	180 (109.0)	1168888	1145556		
3176 - 5	325 @ 1800	178 (107.5)	1168888	1247279		
3176 - 7	300 @ 1800	162 (98.2)	1168877	6V3493		
3176 - 8	275 @ 1800	148 (89.7)	1168866	6V3492		
3176 - 9	275 @ 1800	148 (89.7)	1168866	1350556		

ISSUE DATE	09 SEPT 96							
REVISION NO.								
REVISION DATE								